

**Logistics Transformation
Task Force (LTTF) Autopsy
Report Overview to MG
Stevenson**

16 Oct 03

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**U.S.
Army
Materiel
Command**



ESSENTIAL IN PEACE, INDISPENSABLE IN WAR



Logistics Transformation Task Force (LTTTF) Autopsy Overview



- **LTTTF Decision Paper - Problem Statement**
 - **Local Unit Commander and Program Managers
PMs/AMC MSCs are not Getting Sufficient Feedback
From Field on Major Assembly and/or Expensive
Component Failures**
- **Proposed Solution**
 - **Develop an Autopsy Report Focusing on Formalizing
Process to Communicate Equipment Failure
Information to Local Chain of Command and Proponent
PM/Commodity Command for High Dollar Components**
 - **Those with a FEDLOG Unit Price $\geq$ \$50K**



Proposed Autopsy Report SRS End State Metrics

- Autopsy Report will be Designed to Capture Major Assembly Failures and Root Cause of Failure for Components with FEDLOG Price Over \$50K
- Users will be Field Commanders, PMs and Weapon System Managers

– **Measure 1:** Actual Major Assembly Failures Versus Projected Failures Measured From LMP on a Monthly Basis

<u>Green</u>		
< 24% Over	Based on PM and MSC	≥ 24
% Over		
Projected Failures	Coordination	Projected
Failures		

Interim Report
30 Sep 04

Recommended Metrics

Measure 2: Number of Major Assemblies That are Red or More and have Corrective Actions Initiated (I.E. Cause of Failure has Been Analyzed and Actions to Correct are Underway)

<u>Green</u>	<u>Amber</u>	
≥ 90% Have “Fixes”	≥ 80% but < 90% Have	<
80 % Have		
Underway	Fixes Underway	Fixes
Underway		

End State
31 May 06



Proposed Autopsy Report SRS End State Metrics - Metric 3

- **Measure 3: Component Obsolescence - Percentage of major assemblies that are no longer in production and that have actions underway to address the obsolescence issue. Components will be matched against the DOD Diminishing Manufacturing Sources and Materiel Shortages (DMSMS) Identification, Notification and Flagging Operation (INFO) system to determine obsolescence status and actions to fix.**

<u>Green</u>	<u>Amber</u>	
Red		
$\geq 90\%$ Have "Fixes"	$\geq 80\%$ but $< 90\%$ Have	$<$
80 % Have		
Underway	Fixes Underway	Fixes
Underway		

Metric 3 Action?



- **CG AMC, “Add Component Obsolescence Metric”- Mar 03**
- **LOGSA Presented Draft Metric to CG Jun 03**
 - **Memorandum of Agreement (MOA) Created Between LOGSA and Diminishing Manufacturing Sources and Material Shortage (DMSMS) Information System**
 - **CG Tasked LOGSA at Briefing - How Does Industry Handle Component Obsolescence?**
- **LOGSA Developed Information Paper on Industry and Component Obsolescence - Aug 03**
- **CG AMC Tasking (Note in Column of Point Paper)- “Set Up mtg with Assistant Secretary of the Army For Acquisition, Logistics, And Technology ASA(ALT) to Discuss.”**



Possible Discussion Topics for ASA(ALT) and CG AMC

- **How will Autopsy Report Metrics be Reported and Rolled Up, and Utilized by AMC and ASA(ALT)?**
- **Is There an Obsolescence Problem for Items $\geq$ \$50K?**
 - Autopsy Report Focuses Only on These High Dollar Items
 - If so, is Autopsy Report Obsolescence Metric a Good One?
- **Are Other Obsolescence Metrics Being Initiated or Reported Within AMC or ASA(ALT)?**
 - If so, Would They be More Useful Than Autopsy Report Metric?
- **How Does Industry Handle Component Obsolescence, and is Army Using Similar Approaches?**



Back Up Charts

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Autopsy Reporting, 10 Oct 03



Objective Autopsy Report Process



- **Unit “Master Diagnostician” Prepare Report**
- **Owning Unit Commander Sign and Forward to Battalion Commander**
- **Battalion Commander Review and Forward Through Chain of Command to First GO**
- **Unit Level Logistics System/Global Combat Support System-Army (ULLS/GCSS-A) Clerk Electronically Submit Report Through GCSS-A to Sustainment Base and LOGSA**

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Interim Autopsy Report Process



- **LOGSA Provide Autopsy Report Functionality Until Final GCSS-A Solution is Fielded - HQ AMC Tasking Jan 03**
 - **Use Component Demand vs Failures**
 - **Establish Average Demand for High Dollar Items From Historical Data**
 - **Compare Monthly Demand to Historical Average**
 - **If Out of Tolerance, Coordinate With PMs/MSCs to Track Actions Initiated to Review Usage Rates**
 - **Coordinate With Diminishing Manufacturing Sources/Materiel Shortages (DMSMS) to Track Actions Related to Part Obsolescence (if Applicable)**

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Items Flagged for Metric 1

13 MONTH HISTORY



742 ITEMS
> \$50K

Measure 1: Actual Major Assembly Failures Versus Projected Failures Measured From LMP on a Monthly Basis

- Interim Tracking will Use Demands From Existing STAMIS
- End State will Use Failures Reported Via GCSS-A

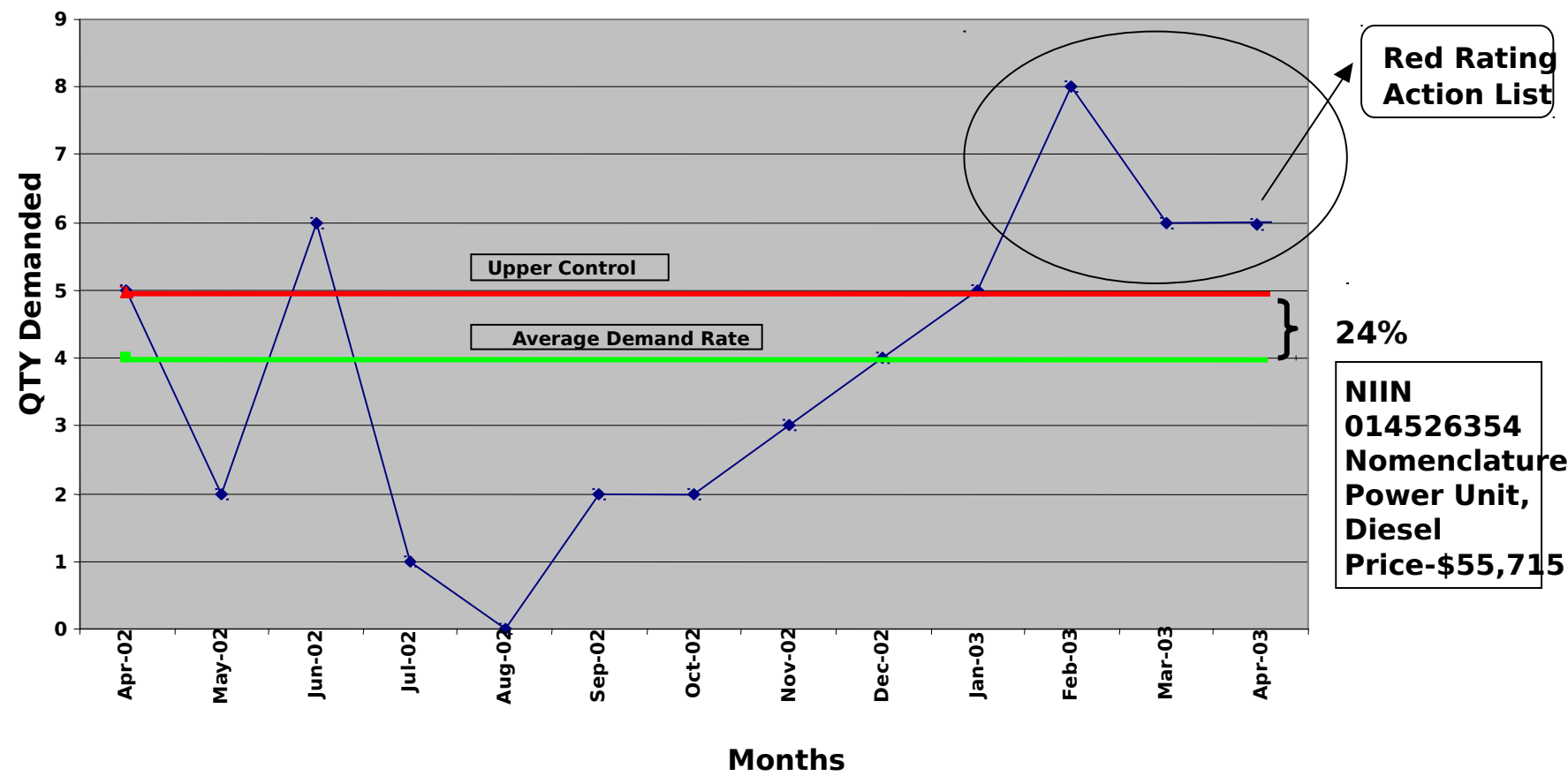
End State with CSE Failures Reported via CSES A					Monthly Demands		Avg Demand	
NIIN	Nomenclature	Price	SOS		Feb	Mar	Apr	Rate
010922037	ENGINE,GAS TURBINE	\$54,059	AMCOM-A		7	2	2	1.38
011873439	OPTICAL RELAY COLUM	\$86,469	AMCOM-A			3	4	3
013621914	HEAD ASSEMBLY,TANK	\$85,706	IOC			2	4	2
013815087	THERMAL IMAGING SYS	\$71,461	IOC			4	5	4
013862786	ELECTRON TUBE	\$136,460	CECOM			2	2	1
014067322	GENERATOR,TIME CODE	\$113,090	CECOM			2	2	1
014092631	PDIU ASSEMBL W-CONT	\$50,992	IOC			3	7	2
01								2
01								12
01								9
Green					Red			
< 24% Over					Based on PM and MSC		≥ 24 %	
Over					Coordination		Projected	
Projected Failures								
Failures								



Metric 1



HET M1070 Diesel Power Unit 13 Month Demand History





Metric 2



Action List Report For M1A1 Repairable Components Over \$50K

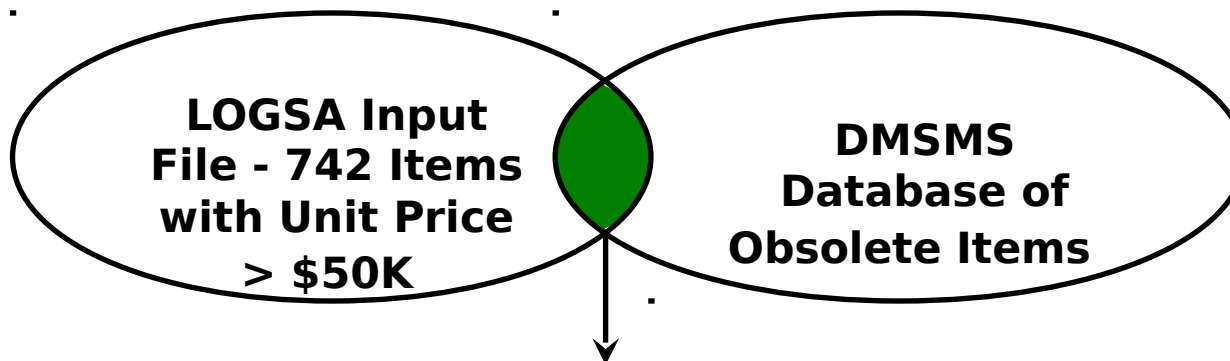
Item	MDS	FY	FSC	NIIN	CON REP	Nomenclature	SOS	MRC	ARI	MAT CAT	AMDF Unit Price	Fix Underway	Remarks
1	M1A1	2003	2835	011787245	R	ENGINE MODULE REAR	AKZ	D	R	K21J E	185,701.00	YES	ECP WORK to Correct Maintance Produce
2	M1A1	2003	2835	012691234	R	ENGINE MODULE FORWA	AKZ	D	R	K21J E	213,805.00	NO	J ust added to List(This Month)
3	M1A1	2003	2835	014087048	R	ENGINE,GAS TURBINE,	AKZ	D	R	K24J E	499,860.00	YES	under RECAP Program
4	M1A1	2003	2520	013259834	R	TRANSMISSION,HYDRAU	AKZ	H	R	K21J E	182,051.00	NO	Under Study for Root Cause REDEC Lead
5	M1A1	2003	1240	012939706	R	THERMAL RECEIVER WI	B14	D	E	M21J E	74,356.13	NO	Under Study for Root Cause CECOM Lead
6	M1A1	2003	1240	013800280	R	SIGHTUNIT	B14	D	R	M21J E	60,168.15	NO	Under Study for Root Cause CECOM Lead
7	M1A1	2003	2835	013681537	R	ENGINE,GAS TURBINE	AKZ	F	R	K24J E	501,677.00	NO	Under Study for Root Cause PM lead
8	M1A1	2003	2520	012108795	R	TRANSMISSION,HYDRAU	AKZ	H	R	K21J E	182,051.00	YES	OEM provided new seals
9	M1A1	2003	4320	013940257	R	PUMP UNIT,HYDRAULIC	AKZ	D		K21J E	65,708.26	YES	NEW Design changed vender
10	M1A1	2003	1220	014552118	R	ELECTRONIC UNIT,FIR	B14	D	S	M21J W	124,880.00	YES	Installing redesign Cicurt Card

Overall Rating of **RED** Below 80% Have Fixes Under

>90% Have Fixes Underway	>80% but <90% Have Fixes Underway	<80% Have Fixes Underway
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Metric 3 Notional Chart



DMSMS Output File to LOGSA

- **List of 742 LOGSA Provided Items Found to be Obsolete in DMSMS DB**
- **Any Corresponding Actions by MSC, PM, etc., Currently In-Place to Address Subset of Obsolete Items**

LOGSA Determines Metric 3 Rating Based on Output File - % of Obsolete Items With Actions Underway (>90% is Green)



Draft Autopsy Projected Milestones



Task Name	Completion Date
Requirements Definition	11/21/03
Deliver Software Design Description	11/21/03
Deliver Software Test Plan	11/21/03
Requirements Analysis/System Design	01/02/04
Complete Code Generation	07/30/04
Final Development Environment Test	07/30/04
Complete End User Testing	08/06/04
Deliver Software Users Manual	08/20/04
Complete End-user Corrections	08/27/04
Move to Production	09/28/04
Final Product Delivery	09/30/04

All dates are tentative. Actual completion dates may change based on the date of project initiation and changes to the scope of the effort.



Weapon System Managers, and LOGSA - 5TL25 Submit Autopsy Reports to Program Managers

Initiative LEAD: LOGSA - Col Kurt Weidenthal II/AMXLS/(256) 955-0501 and Support: PM ALIS/Mike Verville/
(804) 734-7683
Date of Update: 28 AUG 03 IRL Rating: 4

UPDATE			☒			NEW			☐			DELETE			☐			COMPLETED			☐			FUNDING STATUS/ISSUES (Provide specifics including PEG and MDEP)					
INITIATIVE DESCRIPTION: Submit Autopsy Reports to Program Managers (PMs), Weapon System Mgrs, and LOGSA on all combat systems major assemble failures with a FEDLOG price of \$50K or more. MILESTONE MET KEY MILESTONE ACTIONS MILESTONE YES NO a. DA G-4 issue policy guidance on Autopsy Report preparation and submission timelines to first GO in Chain of Command and the sustainment base following confirmation of a failure. 30 Jun 03 X b. LOGSA and GCSS-A develop standardized automated Autopsy Report for GCSS-A inclusion by FY04. Milestones as follows: (1) Meet with GCSS-A to Discuss Autopsy Report Requirements 31 Mar 03 X (2) Program Interim Rqmts, Test, and Field Interim Solution 30 Sep 04 (3) Develop integrated GCSS-A ERP solution. 31 May 06																								• LOGSA has Identified Funding Requirements and will be Programmed in POM • LOGSA has Internally Funded FY03 Budget Requirement for Development of Interim Solution					
																								PEG: Sustain MDEP: SOTH FY 03 - \$264K (Interim) - Internally Funded FY 04 - \$127K (Sustainment) - Not Funded FY 05 - \$127K (Sustainment) - Not Funded FY 06 - \$269K (Final) - Not Funded					
ACTION ITEMS NOT MET WITH REVISED MILESTONES																		CURRENT ASSESSMENT											
Action Not Met Milestone Milestone (a) 31 May 06 and submit an Autopsy Report will not be available until the final solution in GCSS-A, scheduled for 31 May 06. Policy guidance should be issued in a corresponding timeframe.																		Revised						☒ GREEN ☐ AMBER ☐ RED • SOW to develop interim solution has been completed. Contract negotiations will be finalized in Sep 03 and work will begin. • Estimated completion is Aug 04. This includes internal alpha testing and beta testing with selected external users (MSC, PM, and Field offices). • MOA has been established to exchange data with Army’s Diminishing Manufacturing Sources & Materiel Shortages system to track disposition of					

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